CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/CEMENT/2016-17 Date: 17.01.2017

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
*** Agency**	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
*** Name of Work**	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
*** Reference**	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
*** Sample ID**	:	Cement – Sample 1
Sample Received on	:	16.01.2017
Period of Testing	:	16.01.2017 to 17.01.2017

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	29.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	155 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	490 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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⇒ Any Query regarding the report must be reported within 30 days from the date of testing.

****

VIDYARANI P.K.
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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/SAND-Gradation/2016-17 17.01.2017

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of Work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Fine Aggregates - Sample 1
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	16.01.2017
Date of Testing	:	17.01.2017

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	96.70	90-100	90-100	90-100	95-100
2.36	80.20	60-95	75-100	85-100	95-100
1.18	58.20	30-70	55-90	75-100	90-100
600 Micron	28.00	15-34	35-59	60-79	80-100
300 Micron	16.50	5-20	8-30	12-40	15-50
150 Micron	4.00	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-I specific limits.

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/AGG/GR/2016-17

17.01.2017

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of Work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Coarse Aggregates (40mm) - Sample 1
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	16.01.2017
Date of Testing	:	17.01.2017

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	96.00	95-100	85-100
20	36.00	30-70	0-20
10	14.00	10-35	0-5
4.75	4.00	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17

18.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	18.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	511	513	13.15	O.K	O.K

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17

18.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	18.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	513	515	13.3	O.K	O.K

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NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17 18.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	18.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	514	516	13.4	O.K	O.K

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Job No.: CTCE/BBMP/NH/W.No.15/Steel/2016-17 18.01.2017

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Samples ID	:	16 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	18.01.2017

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	16	1.58	520	522	13.55	O.K	O.K

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Pre Slab/2016-17

06.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Precast slab
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	02.02.2017
Date of Testing	:	06.02.2017

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	79.00	0.389	2507.80	1.58	0.955	30.25	15.41	16.64	17.43	21.79
2	50.00	80.00	0.394	2508.28	1.60	0.957	32.15	16.37	17.68	16.92	21.15
3	50.00	81.00	0.402	2527.62	1.62	0.959	33.55	17.09	18.45	17.70	22.13

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Technical Manager

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

25.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of the work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Culvert Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.01.2017	25.02.2017	8.155	715.3	31.79
2	28.01.2017	25.02.2017	8.225	721.8	32.08
3	28.01.2017	25.02.2017	8.305	739.6	32.87

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

25.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of the work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.01.2017	25.02.2017	8.099	705.5	31.36
2	28.01.2017	25.02.2017	8.199	712.8	31.68
3	28.01.2017	25.02.2017	8.235	738.9	32.84

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Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17 27.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of the work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2017	27.02.2017	8.169	712.3	31.66
2	30.01.2017	27.02.2017	8.225	725.6	32.25
3	30.01.2017	27.02.2017	8.325	730.5	32.47

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ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

VIDYARANI P.K.
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CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 :2005

T-2377

Job No.: CTCE/BBMP/NH/W.No.15/CSR-01/247d/Cube/2016-17

27.02.2017

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Dasarahalli Sub Division, BBMP, Bangalore.
* Agency	:	**Mr. Nagaraj Hosur,** #133, 1st Main, 14th Cross, Soundarya Layout, Sidedahalli, Nagasandra Post, Bangalore – 560 073.
* Name of the work	:	Improvements & Construction of CC road Bhuvaneshwarinagara 5th Main & 2nd, 3rd & 4th Cross & Shiva temple front road at Ward No.15, Dasarahalli, BBMP, Bangalore.
* Reference	:	BBMP/DZ/AEE/PIA/PR/2016-17 Dated: 16.01.2017
* Sample ID	:	Road Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{30}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	27.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	30.01.2017	27.02.2017	8.226	706.3	31.39
2	30.01.2017	27.02.2017	8.348	718.6	31.94
3	30.01.2017	27.02.2017	8.418	720.4	32.02

*Information is furnished by the Customer/Representative.

Note:

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2017	28.02.2017	8.155	705.3	31.35
2	31.01.2017	28.02.2017	8.235	712.5	31.67
3	31.01.2017	28.02.2017	8.307	723.6	32.16

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2017	28.02.2017	8.135	715.3	31.79
2	31.01.2017	28.02.2017	8.290	722.5	32.11
3	31.01.2017	28.02.2017	8.305	735.6	32.69

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Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2017	28.02.2017	8.162	705.6	31.36
2	31.01.2017	28.02.2017	8.298	720.3	32.01
3	31.01.2017	28.02.2017	8.356	735.8	32.70

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Sample Received on	:	28.02.2017

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.01.2017	28.02.2017	8.203	702.3	31.21
2	31.01.2017	28.02.2017	8.358	715.6	31.80
3	31.01.2017	28.02.2017	8.405	728.5	32.38

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